

MALCOLM PIRNIE, INC.

**PASSAIC RIVER ESTUARY
PRE-EXPANSION ACTIVITIES
PROGRESS REPORT**

MPI. PROJECT NO.:	0285-924
CLIENT:	USACE-KC
CONTRACT NO.:	DACW41-02-D-0003, Task Orders 0008 and 0011
LOCATION:	New Jersey
REPORT NO.:	10
DATES COVERED:	August 9, 2003 through September 5, 2003
EPA IAG No.:	DW96941915

PREPARED BY:

Bruce Fidler, Malcolm Pirnie Project Manager
Lisa Szegedi-Greco, Deputy Project Manager

Task Order 0008/RI/FS

Contract Action	Estimated Cost	Fixed Fee	Total Estimated Costs
ATP 1	\$791,654	\$60,956	\$852,610
Total Authorized Amount:			\$852,610

1. WVN No. 1 was submitted on January 31, 2003 and signed by the USACE on February 4, 2003. This WVN moves dollars and hours from WAD02, subtask WO8a (95 hours and \$10,550) and WAD02, subtask WO 8g (40 hours and \$8,410) to a new task (WAD 02, WO 8k – Public Website Set-up).
2. WVN No. 2 is being prepared that will move dollars and hours between tasks that are over budget or need more budget due to increased scope and tasks that are under budget.
3. A letter dated August 26, 2003 was sent to the Contracting Officer with notification that we expect to have exceeded 75 percent of the total estimated cost within 60 days of that date.

Task Order 0011/RI/FS

Contract Action	Estimated Cost	Fixed Fee	Total Estimated Costs
ATP 1	\$306,945	\$18,317	\$325,262
ATP 2	\$306,250	\$19,012	\$325,262
Total Authorized Amount:			\$325,262

1. Submitted work basis, cost estimate and ATP for WOs 1-6 to the USACE on December 20, 2002. Conducted negotiations on the above cost estimate among USEPA, USACE, and MPI on January 6 and February 14, 2003. The final cost proposal was sent to the USACE on February 24, 2003 and the ATP was approved by the USACE on March 11, 2003.
2. A WVN that moves dollars and hours from WAD 03, WOs 4.1a, 4.2b, 4.2e, 5a, and 5d to WO 2, as well as newly created WO 1b and WOs 5e through 5j was approved by the USACE on September 10, 2003. These subtasks were not included in the original cost proposal and scope since it was unknown whether the PREMIS database would be integrated with HEP/CARP or would be a new database. In addition, since some tasks were moved from a subconsultant to Malcolm Pirnie, the fixed fee increased slightly.

A. Current Status Summary (August 8, 2003 through September 5, 2003)

WAD 1: PROJECT MANAGEMENT

- This WAD has exceeded 75% of the budgeted cost.
- Prepared and submitted ninth set of Earned Value (EV) curves and Progress Report covering the period July 12, 2003 through August 8, 2003.
- Prepared and submitted an invoice for the period covering July 12, 2003 through August 8, 2003.
- Weekly conference calls to discuss project status and action items were held.
- Consent on the HydroQual subcontract was received from the USACE on August 15, 2003.

WAD 2: RI/FS SERVICES

- This WAD has exceeded 75% of the budgeted cost.
- An estimate for creating a multiple attribute feature was submitted to the USACE and USEPA on August 15, 2003. The estimate was subsequently approved, and programming of this function has begun.
- A digital library attributes memo was submitted to the USACE and USEPA on September 2, 2003. Comments and approval on this memo are pending.
- A list of detailed modeling analytical data needs was created and sent to USEPA, who submitted a letter with this information to OMR.
- Work is ongoing on the revision of the content and appearance of the ourPassaic.org public website prototype based on USEPA and USACE comment.
- The draft Data Needs Power Point presentation for the CARP Committee meeting was submitted to the USEPA and USACE on September 5, 2003.
- The MERI files were obtained by our subcontractor and copying has begun.
- Functionality was added to the Digital Library to allow documents and subfolders to be moved between folders.

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- Bathymetric information received from the USACE – NY District in DGN format was converted to CAD format and digitized. This information is available in the digital library.
 - Berry's Creek files were obtained from the USEPA on August 19, 2003.

WAD 3: ADDITIONAL RI/FS SERVICES

- The historical data was converted to the PREmis database format and submitted to Malcolm Pirnie for upload. In addition, several memos detailing the results of the historical data conversion were also received. All of these deliverables are available in the digital library.
- A revised matrix for the Technical Advisory Committee candidates for the project was created and submitted to the USEPA and USACE on August 29, 2003. The matrix will be discussed on September 9, 2003 and will be used to select potential committee members.
- Work has begun on the laboratory EDD upload and laboratory validation modules.

B. Problems Encountered and Solved

Problem: In order to complete the mass balance modeling subtask, HydroQual needs to obtain water column data for calibration purposes. The only known water column data, which were collected as part of the HEP/CARP project, are currently unvalidated. Therefore, they are not available for public release. If these data cannot be obtained by early October, work on this task must be suspended or completed with allowance for much greater uncertainty.

Solution: A conference call was held by the HEP/CARP management committee to determine if HydroQual would be permitted to use the data for their mass balance task. At that time, the NJDEP would not agree to release the data. A meeting of the management committee, during which this issue will be further discussed, is scheduled for September 25, 2003.

C. Meetings

- None

D. Schedule/Budget

- Earned value curves for Task Order No. 8 and Task Order No. 11 are attached to this progress report and summarized in Attachment 1.

E. Planned Activities

- A meeting is scheduled with the CARP Management Committee, including representatives of NJDEP on September 25, 2003. Representatives of the project team will make a presentation to explain and justify the proposed use of unvalidated CARP data for project planning purposes, and reinforcing that unvalidated CARP data will not be used for CERCLA remedy decision-making.
- A data source visit will be scheduled with the NJDEP.
- HydroQual's HEP/CARP modeling framework evaluation report will be finalized based on the comments received.
- A memo describing document types and key attributes for documents uploaded to the digital library was submitted to the USACE and USEPA and is awaiting comments and approval.
- A multi-attribute upload function is being created for the digital library.
- USEPA and MERI files will be uploaded to the digital library using the attribute scheme that was developed.
- A discussion will be held between USACE, USEPA, Malcolm Pirnie, Battelle, and HydroQual on September 9, 2003 on the makeup of the Technical Expert Committee and the preliminary rankings that have been assigned to each potential member.
- A memo will be submitted from RSCC regarding approval of the Forms II Lite and CLP memo.
- Work will continue on uploading historical data into the PREmis database, as well as programming the EDD and validation modules.
- The public website (both functional and layout aspects) will be amended based on the comments received from USACE and USEPA.
- The fact sheets, updated Q&A, and press release will be obtained from the USEPA.
- The USEPA will identify which documents can be released to the public.
- A cost proposal will be submitted to the USACE for the next phase of work to be conducted under Task Order 0011.

F. Subcontractor Activity

- HydroQual conducted the following activities during the reporting period:
 - Filled out and revised the WADs 4-5 Proposal and Summary.
 - Discussed and revised presentation materials for the September 25, 2003 CARP Management meeting.
 - Developed ArcView maps of the SWEM/CARP grid for the region of the Passaic and Hackensack Rivers and Newark Bay. These maps include locations for the time-series plots of the hydrodynamic variables.
 - From the SWEM grid, river discharge and temperature plots were plotted over the 94-95 USGS water year period.
 - Water surface elevation, bottom shear stress, surface and bottom temperature, and surface and bottom salinity were plotted over the 94-95 USGS water year for three grid cell locations within the 6-mile reach of the study area.
 - Similar plots were made for each of the months of the period to reveal the short-term trends of the system dynamics.
 - Animations were assembled of the physical variables for all of the grid cells in the study area. These have been made for water surface elevations, bottom shear stress, temperature and salinity variations, velocity/currents and probable areas of erosion and deposition.
 - Held a meeting to determine a course of action prior to obtaining the codes that would be used. The meeting lasted an hour and included Paul Anid, Tom Gallagher, Sean O'Neil, Ed Garland, Ferdi Hellweger and Devanshi Jackson.
 - Obtained a preliminary code and began to set up a dye study run. Dye would be released from the 6-mile reach area of the study area. The dye study is important to show how the physical forcing will transport material throughout the study area.
 - Assigned boundary conditions for the sediment bed, based on the data from the NOAA database, for the 6 chemicals listed in the document Mass Balance Outline.

- Battelle conducted the following activities during the reporting period:

- Completed and delivered the Quality Control Plan for Converting Historical NY/NJ Data into PREmis (8/11/03); revised according to Pirnie's comments; resubmitted final draft
- Made contacts and continued correspondence with sources of additional historical data, (*e.g.*, NJDEP, USGS)
- Converted historical data into PREmis structure, uploaded data to PREmis digital library (9/5/03)
- Conducted QAQC review of historical data conversion, prepared summary memo describing QAQC audit findings
- Prepared Technical Memo Identifying Additional Sources of Historical Data
- Prepared 3 additional documents to support the historical data conversion: the Data Processing Synopsis, the Error and Discrepancy Listing, and the Source Attribution to Original Studies. These documents were uploaded to the digital library. (9/5/03)
- Delivered list of existing HEP/CARP/D3 user queries to be considered for development into PREmis SQL statements

ATTACHMENT 1
SUMMARY OF COST PERFORMANCE

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Summary of Task Orders 0008 and 0011/Project Management/RI/FS Activities

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Task Order 0008 – Project Management

WAD 1: Project Management, WO 1, Project Administration

Scope: Provide overall management activities to oversee technical, subcontracting and financial activities.

Variance Analysis: This task is slightly over budget due to increases in the billing/clerical task. This task had a larger than normal amount of hours charged to it during a previous reporting period since there was a significant amount of conflict of interest (COI) duties. This included assembling resumes for all personnel allowed to work on the project, as well as establishing a COI location on Document Management in PREmis. In addition, this budget was originally intended to apply to one task order. Since it is now being used for two task orders (Task Order 0008 and 0011), there is now a need to produce two separate invoices and two EV curves.

Corrective Action Plan: An ATP/WVN is being prepared to move monies from tasks that are under budget to tasks that have exceeded the budget.

WAD 1: Project Management, WO 2, Meetings

Scope: Includes cost associated with project team meetings including meetings with USACE and USEPA.

Variance Analysis: None

Corrective Action Plan: None

WAD 1: Project Management, WO 3, Technical Support

Scope: Provide support to the USACE and USEPA, as directed by the USACE.

Variance Analysis: This task is currently behind schedule since technical work on the project was slowed down for several months at USACE direction until a new USEPA RPM was assigned.

Corrective Action Plan: It is anticipated that this variance will decrease now that technical work on the project has resumed.

WAD 1: Project Management (Expenses)

Scope: Office expenses for computer and reproduction services.

Variance Analysis: None

Corrective Action Plan: None

Task Order 0008 – RI/FS Activities

WAD 2: RI/FS Activities, WO 1, PEAP

Scope: Prepare a Draft and Final PEAP utilizing Work Plans from similar sites.

Variance Analysis: This task, which is completed, is over budget. Refer to the previous Progress Report for the variance analysis.

Corrective Action Plan: An ATP/WVN is being prepared to move monies from tasks that are under budget to tasks that have exceeded the budget.

WAD 2: RI/FS Activities, WO 2, Inventory Historical Data

Scope: Create an inventory of historical data, reports, and papers pertinent to the Passaic River Estuary. This includes creating an overview report that lists all potential sources that were identified, as well as gives a brief summary of what information is available from each source. This task also includes researching, assembling, and evaluating readily available base mapping for the Passaic River Estuary and creating a mapping overview report.

Variance Analysis: This task is currently slightly over budget and slightly behind schedule. Refer to the previous Progress Report for the budget variance analysis. This task is behind schedule since one of the major data source visits (the NJDEP) cannot be conducted until the USEPA obtains access.

Corrective Action Plan: An ATP/WVN is being prepared to move monies from tasks that are under budget to tasks that have exceeded the budget.

WAD 2: RI/FS Activities, WO 3, Evaluate HEP/CARP Database

Scope: Evaluate the viability of integrating the existing HEP/CARP database with the system-wide database being developed for the project.

Variance Analysis: None

Corrective Action Plan: None

WAD 2: RI/FS Activities, WO 5, Conceptual Model

Scope: Develop an understanding of the processes affecting the fate and bioaccumulation of metals and organic chemicals within the Passaic River Estuary.

Variance Analysis: None

Corrective Action Plan: None

WAD 2: RI/FS Activities, WO 6, Mass Balance and Quantification

Scope: Create an estimate of the mass of each contaminant of concern present in the Passaic River Estuary.

Variance Analysis: This work is currently behind schedule since we have not yet received the unvalidated CARP data.

Corrective Action Plan: A meeting will be held with the HEP/CARP Management Committee to determine if they are willing to release unvalidated to USEPA.

WAD 2: RI/FS Activities, WO 7, Evaluate HEP/CARP Framework

Scope: Review the HEP/CARP framework with respect to applicability to the contaminants of concern in the Passaic River Estuary.

Variance Analysis: A detailed QA review of the revised document prepared by HydroQual was performed by a new Malcolm Pirnie project team member with modeling and sediment geochemistry expertise. Additional comments were made.

Corrective Action Plan: None. This time is an investment in later project tasks.

WAD 2: RI/FS Activities, WO 8, Website and GIS System

Scope: Create a Passaic River Estuary Project Web Site/Database that will serve as the access point for all study data, documents, and project related files.

Variance Analysis: None

Corrective Action Plan: None

WAD 2: RI/FS Activities, WO 10, QCP

Scope: Prepare a Draft and Final QCP.

Variance Analysis: This task, which is complete, is over budget. Refer to the previous Progress Report for the variance analysis.

Corrective Action Plan: An ATP/WVN is being prepared to move monies from tasks that are under budget to tasks that have exceeded the budget.

WAD 2: Investigation Support (Expenses)

Scope: Office expenses for computer and reproduction services and subcontractor fee.

Variance Analysis: The subcontractor fee task is slightly behind schedule.

Corrective Action Plan: It is anticipated that this variance will decrease now that technical work has resumed on the project.

Task Order 0011 – Additional RI/FS Activities

WAD 3: Additional RI/FS Activities, WO 1, Project Management

Scope: Provide overall management activities for Battelle to oversee technical and financial activities.

Variance Analysis: None

Corrective Action Plan: None

WAD 3: Additional RI/FS Activities, WO 2, Meetings

Scope: Includes cost associated with project team meetings including meetings with MPI, USACE and USEPA.

Variance Analysis: None

Corrective Action Plan: None

WAD 3: Additional RI/FS Activities, WO 3, PEAP and Schedule

Scope: Includes cost associated with amending the PEAP and QCP to reflect additional tasks that are part of WAD 3.

Variance Analysis: None

Corrective Action Plan: None

WAD 3: Additional RI/FS Activities, WO 4.1, Develop Data Scheme

Scope: Includes cost associated with conducting a review of all of the data collected for the project and establishing its relevance to the site. This will include creating a database structure, establishing an initial data quality scheme, and making an interim decision on the relevance of each report.

Variance Analysis: None

Corrective Action Plan: None

WAD 3: Additional RI/FS Activities, WO 4.2, Populate Analytical Database

Scope: Includes cost associated with populating the project database with both electronic and hardcopy data. This will consist of manual data entry of hardcopy data and the associated quality assurance, amending the format of data source databases to be compatible with the project database and then uploading the data, creating a memo that documents the approach used for these activities, and management and oversight.

Variance Analysis: None

Corrective Action Plan: None

WAD 3: Additional RI/FS Activities, WO 5, Website and GIS System

Scope: Includes cost associated with providing technical support and management for the project website being developed under WAD 2. This also includes integrating HEP/CARP with the Passaic River Estuary database.

Variance Analysis: This task is slightly under budget since the task management task is behind budget.

Corrective Action Plan: It is anticipated that this variance will decrease since the amount of technical work being conducted under this task is increasing.

WAD 3: Additional RI/FS Activities, WO 6, Establish Technical Expert Team

Scope: Includes cost associated with identifying specialty areas crucial to the project as well as recognized experts in each area, selecting experts to serve on the Technical Advisory Committee, and establishing subcontracts with each of the selected experts.

Variance Analysis: This task is currently behind schedule and over budget.

Corrective Action Plan: It is anticipated that this variance will decrease once the conference call regarding the technical expert team matrix is conducted. The budget variance will decrease once subcontracts are established since earned value cannot be taken until each subcontract is executed.

SUMMARY OF TASK ORDER NO. 0008
MANAGEMENT, SUPPORT, AND INVESTIGATION
8/9/03-9/5/03

Task Order No. 0008	Current Budget Cost (BC)	Scheduled Budget Cost (BCWS)	Cost to Date (ACWP)	Percent Complete (PCT)	Earned Value (BCWP)	Estimate to Complete (ETC)	Estimate at Completion (EAC)
WAD 01 (Project Management Administration)	\$ 227,770	\$ 201,692	\$ 202,098	82.4%	\$ 185,385	\$ 42,205	\$ 239,706
WAD 02 (RI/FS Services)	\$ 563,844	\$ 422,033	\$ 423,797	72.0%	\$ 405,157	\$ 140,567	\$ 547,507
NA (Fee)	\$ 60,784	\$ 47,526	\$ 45,850	75.1%	NA	\$ 14,622	\$ 62,977
Total (Less Fee)	\$ 791,614	\$ 623,725	\$ 625,894	75.1%	\$ 590,542	\$ 182,772	\$ 787,213

Task Order No. 0008	Cost Variance (CVAR)	Schedule Variance (SVAR)	Cost Performance Index (CPI)	Schedule Performance Index (SPI)	CPI/SPI Ratio
WAD 01 (Project Management Administration)	\$ (13,714)	\$ (15,994)	0.93	0.93	1.00
WAD 02 (RI/FS Services)	\$ (17,600)	\$ (4,951)	0.96	0.96	1.00
NA (Fee)	NA	NA	NA	NA	NA
Total (Less Fee)	\$ (31,315)	\$ (20,944)	0.94	0.95	1.00

Prepared 9/19/03

	MPI	HQI	Battelle	Total
Total Budget	\$553,244	\$275,935	\$23,432	\$852,611
Total Expended	\$473,926	\$178,949	\$18,057	\$670,933
Remaining Funds	\$79,318	\$96,986	\$5,375	\$181,678
Schedule Status	On Schedule	Work slightly behind schedule	On Schedule	

Calculations:

PCT = (BCWP/BC) X 100*

ETC = (BC-BCWP)/(BCWP/ACWP)**

It should be noted that this calculation is conducted at a work element level, not a work order level

CAC = ACWP + ETC

CVAR=ACWP-BCWP

SVAR=BCWS-BCWP

CPI = BCWP/ACWP

SPI = BCWP/BCWS

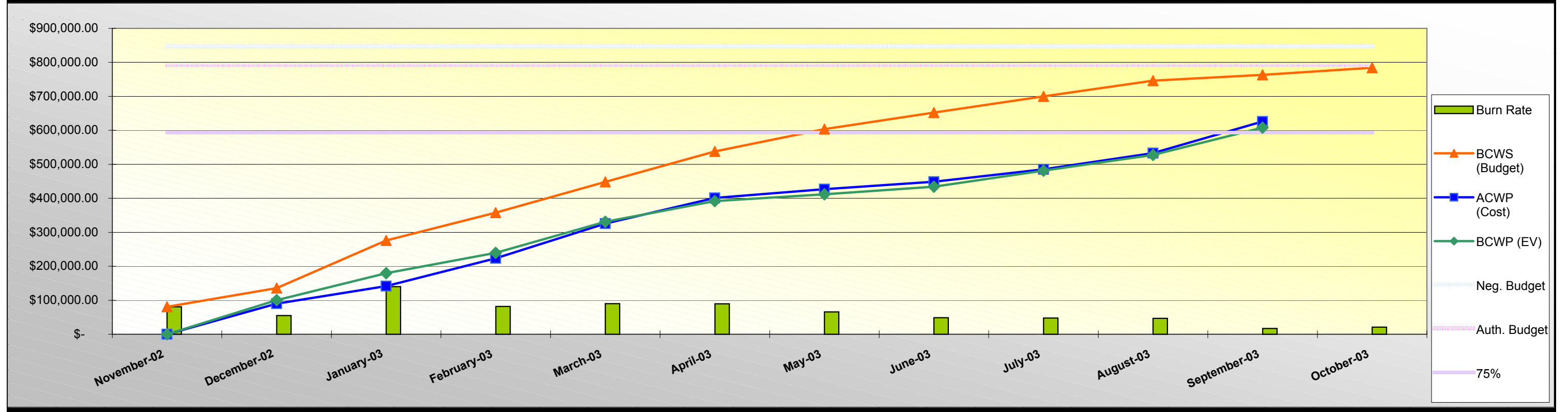
* - PCT for Fee is calculated less travel, since travel expense costs are not fee-bearing.

** - Generally, this formula is used to calculate ETC; however, wherever warranted a judgmental ETC is estimated.

Month	Burn Rate - WAD01	Burn Rate - WAD02	Burn Rate - Total
Nov-02	\$ 34,181	\$ 46,654	\$ 80,835
Dec-02	\$ 16,828	\$ 38,149	\$ 54,977
Jan-03	\$ 27,265	\$ 113,045	\$ 140,310
Feb-03	\$ 14,548	\$ 67,366	\$ 81,915
Mar-03	\$ 14,548	\$ 75,705	\$ 90,253
Apr-03	\$ 13,617	\$ 70,918	\$ 84,535
May-03	\$ 22,616	\$ 55,405	\$ 78,021
Jun-03	\$ 14,548	\$ 34,263	\$ 48,812
Jul-03	\$ 18,570	\$ 28,976	\$ 47,546
Aug-03	\$ 17,664	\$ 28,895	\$ 46,559
Sep-03	\$ 14,548	\$ 2,400	\$ 16,949
Oct-03	\$ 18,836	\$ 2,108	\$ 20,945
Burn Rate - Total by WAD	\$ 227,770	\$ 563,885	\$ 791,655

Cost/Schedule Through September 5th, 2003

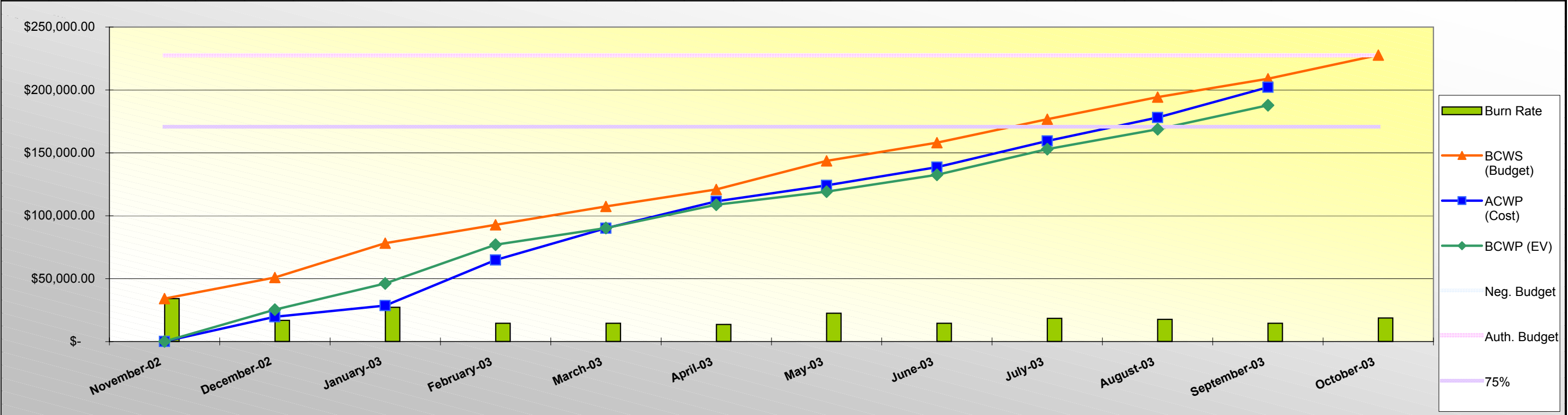
Summary of WADs 1 and 2 Task Order 0008



Note: The earned value curves depict labor costs and expenses to date. The percent complete for the WAD is a statistical calculation.

Cost/Schedule Through September 5th, 2003

Summary of WAD 1 Task Order 0008 - Project Management Administration

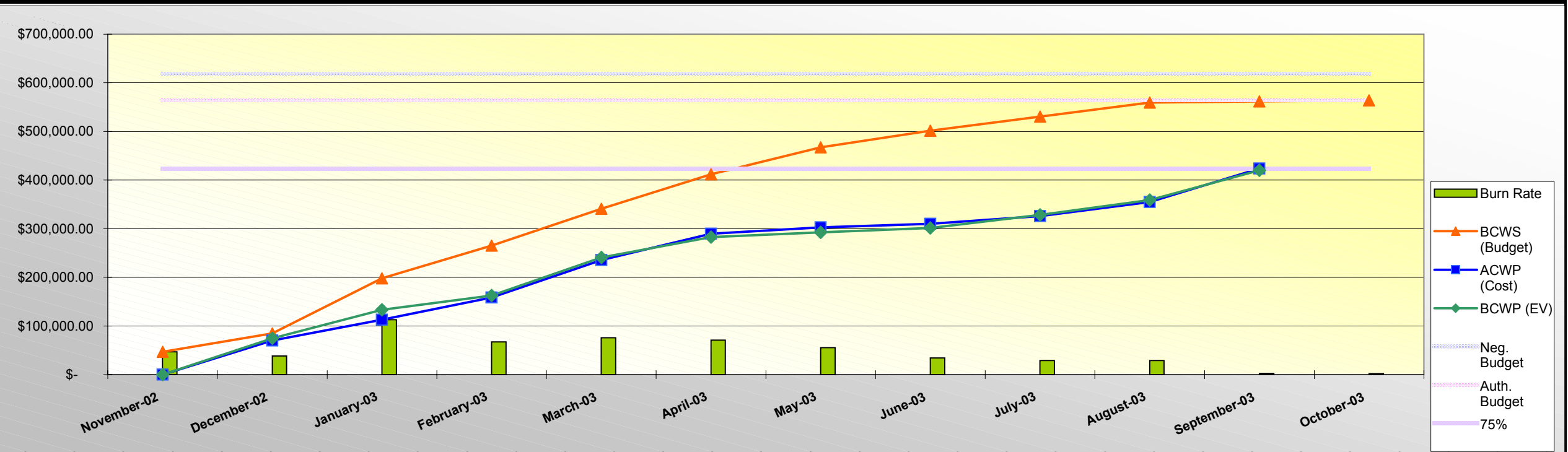


WAD	Work Order	Work Element	Description	Current Budgeted Cost (BC)	Schedule Budget Cost (BCWS)	Cost to Date (ACWP)	Percent Complete (PCT)	Earned Value (BCWP)	Cost to Complete (ETC)	Cost at Complete (CAC)	Cost Variance (CVAR)	Schedule Variance (SVAR)
1	1	00	Project Administration/Reporting	\$ 141,356.00	\$ 123,754.43	\$ 135,362.39	87.5%	\$ 123,754.70	\$ 19,252.23	\$ 154,614.62	\$ (11,607.69)	\$ 0.27
1	2	00	Meetings	\$ 23,496.00	\$ 21,146.40	\$ 16,909.40	66.5%	\$ 15,636.00	\$ 8,500.12	\$ 25,409.52	\$ (1,273.40)	\$ (5,510.40)
1	3	00	Technical Support	\$ 35,901.00	\$ 31,912.00	\$ 21,448.21	59.7%	\$ 21,448.21	\$ 14,452.79	\$ 35,901.00	\$ -	\$ (10,463.79)
1	0	00	Labor Totals	\$ 200,753.00	\$ 176,812.83	\$ 173,720.00	80.1%	\$ 160,838.91	\$ 42,205.14	\$ 215,925.14	\$ (12,881.09)	\$ (15,973.92)
1	0	00	Expenses(Computer/Reproduction)	\$ 22,948.00	\$ 22,968.00	\$ 23,781.02	100.0%	\$ 22,948.00	\$ -	\$ 23,781.02	\$ (833.02)	\$ (20.00)
1	0	00	Travel and Lodging Expenses	\$ 2,408.00	\$ 250.00	\$ 2,998.57	100.0%	\$ 2,408.00	\$ -	\$ 2,998.57	\$ (590.57)	\$ 2,158.00
1	0	00	Subcontractor Fee	\$ 1,661.00	\$ 1,661.00	\$ 1,598.01	96.2%	\$ 1,598.01	\$ 62.99	\$ 1,661.00	\$ -	\$ (62.99)
1	0	00	WAD Fee(Less Travel)	\$ 17,896.08	\$ 15,982.47	\$ 14,702.95	82.2%	\$ -	\$ 3,376.41	\$ 19,176.49	\$ -	\$ -
1	0	00	Job To DateTotals(Less Fee)	\$ 227,770.00	\$ 201,691.83	\$ 202,097.60	82.4%	\$ 187,792.92	\$ 42,205.14	\$ 239,706.16	\$ (13,714.11)	\$ (15,993.92)

Note: The earned value curves depict labor costs and expenses to date. The percent complete for the WAD is a statistical calculation.

Cost/Schedule Through September 5th, 2003

Summary of WAD 2 Task Order 0008 - RI/FS Services



WAD	Work Order	Work Element	Description	Current Budgeted Cost (BC)	Schedule Budget Cost (BCWS)	Cost to Date (ACWP)	Percent Complete (PCT)	Earned Value (BCWP)	Cost to Complete (ETC)	Cost at Complete (CAC)	Cost Variance (CVAR)	Schedule Variance (SVAR)
2	1	00	Pre-Expansion Activity Plan	\$ 41,668.80	\$ 41,668.80	\$ 49,543.44	100.0%	\$ 41,668.80	\$ -	\$ 49,543.44	\$ (7,874.64)	\$ -
2	2	00	Inventory Historical Data	\$ 68,449.19	\$ 68,449.17	\$ 64,169.40	79.3%	\$ 54,311.59	\$ 16,703.64	\$ 80,873.04	\$ (9,857.81)	\$ (14,137.58)
2	3	00	Evaluate HEP/CARP Database	\$ 34,044.72	\$ 34,044.72	\$ 29,938.14	100.0%	\$ 34,044.72	\$ -	\$ 29,938.14	\$ 4,106.58	\$ -
2	5	00	Develop Detailed Conceptual Mo	\$ 88,894.00	\$ 73,895.00	\$ 89,227.09	99.2%	\$ 88,179.50	\$ 722.99	\$ 89,950.08	\$ (1,047.59)	\$ 14,284.50
2	6	00	Prelim Contaminant Mass Balance and In-Situ Mass Quantification	\$ 164,160.06	\$ 62,019.58	\$ 54,442.28	36.0%	\$ 59,146.00	\$ 96,662.58	\$ 151,104.86	\$ 4,703.72	\$ (2,873.58)
2	7	00	Evaluate HEP/CARP Tier 2 Modeling Framework	\$ 11,214.00	\$ 11,214.00	\$ 16,679.33	100.0%	\$ 11,214.00	\$ -	\$ 16,679.33	\$ (5,465.33)	\$ -
2	8	00	Development and Implementation Website/GIS	\$ 105,415.48	\$ 81,893.70	\$ 79,831.10	77.1%	\$ 81,234.38	\$ 23,763.38	\$ 103,594.48	\$ 1,403.28	\$ (659.32)
2	10	00	Quality Control Plan	\$ 8,761.70	\$ 8,761.70	\$ 12,330.32	100.0%	\$ 8,761.70	\$ -	\$ 12,330.32	\$ (3,568.62)	\$ -
2	0	00	Labor Totals	\$ 522,607.95	\$ 381,946.67	\$ 396,161.10	72.4%	\$ 378,560.69	\$ 137,852.59	\$ 534,013.69	\$ (17,600.41)	\$ (3,385.98)
2	0	00	Expenses(Non-Travel)	\$ 13,493.36	\$ 12,343.80	\$ 10,779.28	79.9%	\$ 10,779.28	\$ 2,714.08	\$ 13,493.36	\$ -	\$ (1,564.52)
1	0	00	Travel and Lodging Expenses	\$ 2,738.00	\$ 2,738.00	\$ 1,039.26	38.0%	\$ 1,039.26	\$ 1,698.74	\$ 2,738.00	\$ -	\$ (1,698.74)
1	0	00	Subcontractor Fee	\$ 25,005.00	\$ 25,005.00	\$ 15,817.11	63.3%	\$ 15,817.11	\$ 9,187.89	\$ 25,005.00	\$ -	\$ (9,187.89)
2	0	00	WAD Fee(Less Travel)	\$ 42,888.10	\$ 31,543.24	\$ 31,147.20	72.6%	\$ -	\$ 11,245.33	\$ 43,800.56	\$ -	\$ -
2	0	00	Job To DateTotals(Less Fee)	\$ 563,844.31	\$ 422,033.47	\$ 423,796.75	72.0%	\$ 406,196.34	\$ 140,566.67	\$ 547,507.05	\$ (17,600.41)	\$ (4,950.50)

Note: The earned value curves depicts labor costs and expenses to date. The percent complete for the WAD is a statistical calculation.

SUMMARY OF TASK ORDER NO. 0011
ADDITIONAL RI/FS SERVICES
8/9/03-9/5/03

Task Order No. 0011	Current Budget Cost (BC)	Scheduled Budget Cost (BCWS)	Cost to Date (ACWP)	Percent Complete (PCT)	Earned Value (BCWP)	Estimate to Complete (ETC)	Estimate at Completion (EAC)
WAD 03 (Project Management Administration)	\$ 306,250	\$ 193,792	\$ 109,234	39.65%	\$ 121,420	\$ 162,623	\$ 268,454
NA (Fee)	\$ 19,012	\$ 12,000	\$ 7,498	39.65%	NA	\$ 13,010	\$ 21,476
Total (Less Fee)	\$ 306,250	\$ 193,792	\$ 109,234	39.65%	\$ 121,420	\$ 162,623	\$ 268,454

Task Order No. 0011	Cost Variance (CVAR)	Schedule Variance (SVAR)	Cost Performance Index (CPI)	Schedule Performance Index (SPI)	CPI/SPI Ratio
WAD 03 (Project Management Administration)	\$ 12,048	\$ (166,367)	1.11	0.63	1.77
NA (Fee)	NA	NA	NA	NA	NA
Total (Less Fee)	\$ 12,048	\$ (166,367)	1.11	0.63	1.77

Prepared 9/19/03

	MPI	Battelle	Total
Total Budget	\$187,514	\$137,748	\$325,262
Total Expended	\$69,936	\$52,007	\$121,943
Remaining Funds	\$117,578	\$85,741	\$203,319
Schedule Status	On Schedule	On Schedule	

Calculations:

PCT = (BCWP/BC) X 100*

ETC = (BAC-BCWP)/(BCWP/ACWP)**

CAC = ACWP + ETC

CVAR=ACWP-BCWP

SVAR=BCWS-BCWP

CPI = BCWP/ACWP

SPI = BCWP/BCWS

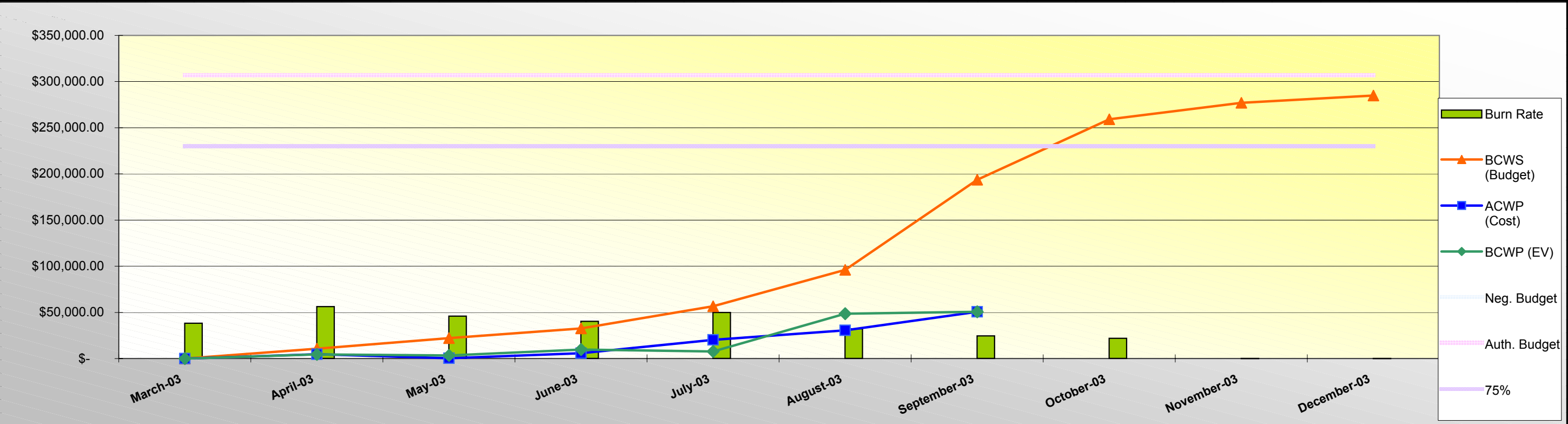
* - PCT for Fee is calculated less travel, since travel expense costs are not fee-bearing.

** - Generally, this formula is used to calculate ETC; however, wherever warranted a judgmental ETC is estimated.

Month	Burn Rate - WAD03	Burn Rate - Total
Mar-03	\$ 38,223	\$ 38,223
Apr-03	\$ 55,019	\$ 55,019
May-03	\$ 45,855	\$ 45,855
Jun-03	\$ 40,281	\$ 40,281
Jul-03	\$ 48,837	\$ 48,837
Aug-03	\$ 32,260	\$ 32,260
Sep-03	\$ 24,610	\$ 24,610
Oct-03	\$ 21,860	\$ 21,860
Burn Rate - Total by WAD	\$ 306,945	\$ 306,945

Cost/Schedule Through September 5th, 2003

Summary of WAD 3 Task Order 0011 - Additional RI/FS Services



WAD	Work Order	Work Element	Description	Current Budgeted Cost (BC)	Schedule Budget Cost (BCWS)	Cost to Date (ACWP)	Percent Complete (PCT)	Earned Value (BCWP)	Cost to Complete (ETC)	Cost at Complete (CAC)	Cost Variance (CVAR)	Schedule Variance (SVAR)
3	1	00	Project Administration/Reporting	\$ 19,763.00	\$ 2,816.73	\$ 2,816.73	15.0%	\$ 2,954.73	\$ 16,023.24	\$ 18,839.97	\$ -	\$ (6,885.34)
3	2	00	Meetings	\$ 8,654.00	\$ 3,231.00	\$ 2,616.00	37.3%	\$ 3,231.00	\$ 4,390.77	\$ 7,006.77	\$ 615.00	\$ (3,231.00)
3	3	00	PEAP and Schedule	\$ 11,099.00	\$ 11,099.00	\$ 12,260.60	100.0%	\$ 11,099.00	\$ -	\$ 12,260.60	\$ (1,161.60)	\$ -
3	4	00	Populate & QC Database	\$ 53,885.00	\$ 31,768.00	\$ 27,735.00	0.00%	\$ 27,735.00	\$ 26,150.00	\$ 53,885.00	\$ -	\$ (30,183.00)
3	4.1	00	Develop Data Scheme	\$ 16,673.00	\$ 4,033.00	\$ -	0.00%	\$ -	\$ #DIV/0!	\$ #DIV/0!	\$ -	\$ (20,706.00)
3	4.2	00	Populate Analytical Database	\$ 37,212.00	\$ 27,735.00	\$ 27,735.00	74.5%	\$ 27,735.00	\$ 9,477.00	\$ 37,212.00	\$ -	\$ (9,477.00)
3	5	00	Integration with HEP/CARP	\$ 174,202.00	\$ 119,625.82	\$ 49,758.09	40.4%	\$ 70,301.67	\$ 73,538.54	\$ 123,296.63	\$ 20,543.58	\$ (97,125.65)
3	6	00	Establish Technical Expert Team	\$ 23,740.00	\$ 17,805.00	\$ 7,948.67	0.0%	\$ -	\$ #DIV/0!	\$ #DIV/0!	\$ (7,948.67)	\$ (23,740.00)
1	0	00	Labor Totals	\$ 291,343.00	\$ 186,345.55	\$ 103,135.09	39.6%	\$ 115,321.40	\$ 157,420.94	\$ 260,556.03	\$ 12,048.31	\$ (161,164.99)
1	0	00	Expenses(Computer/Reproductic	\$ 7,898.00	\$ 3,948.98	\$ 2,696.08	34.14%	\$ 2,696.08	\$ 5,201.92	\$ 7,898.00	\$ -	\$ (5,201.92)
1	0	00	Travel and Lodging Expenses	\$ -	\$ -	\$ -	#DIV/0!	\$ -	\$ #DIV/0!	\$ #DIV/0!	\$ -	\$ -
1	0	00	Subcontractor Fee	\$ 6,995.00	\$ 3,497.52	\$ 3,402.35	48.64%	\$ 3,402.35	\$ 3,592.65	\$ 6,995.00	\$ -	\$ (3,592.65)
1	0	00	WAD Fee(Less Travel)	\$ 19,012.31	\$ 12,000.14	\$ 7,498.25	39.4%	\$ -	\$ 13,009.83	\$ 21,476.32	\$ -	\$ -
1	0	00	Job To DateTotals(Less Fee)	\$ 306,250.00	\$ 193,792.05	\$ 109,233.52	39.6%	\$ 121,419.83	\$ 162,622.86	\$ 268,454.03	\$ 12,048.31	\$ (166,366.91)

Note: The earned value curves depicts labor costs and expenses to date. The percent complete for the WAD is a statistical calculation.